

ANGLE OF ROTATION

INTERNATIONAL STANDARD SUGAR SCALE

IS INDICATED DIGITALLY!

Built-in "LED" light source(589nm equivalent to D-line of sodium) of a long life span.



POLARIMETER

Cat.No.5223

Polax-2L

"Polarimeter Polax-2L" has advantages of the former model, and besides, it is a polarimeter that is newly designed to indicate the temperature of the sample chamber on the display panel.

The angle of rotation(or the value in the international standard sugar scale) for various kinds of sample can be measured accurately by simple operation.

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FEATURES

"LED" of a long life span is used as a light source

"LED" which has a long life and lights overwhelmingly fast in comparison with a sodium lamp, is used as a light source. The wavelength of 589nm equivalent to D-line of the sodium is ensured by using interference filter together with "LED".

Measured value is on digital display

Look through the eyepiece and match brightness at the left and right of the visual field with push-button switches. Measured value is indicated digitally on the display panel. Moreover, the temperature of the sample chamber can be indicated on the display panel by pressing the shift/temp switch.

Switch operation allows smooth measurements

Push-button switches are used to rotate the analyzer. In addition to the right(+) and left(-) switches, the Polax-2L has the shift/temp switch with which the rotation speed can be changed in two steps.



APPLICATIONS

- Polarimeter is widely used in pharmaceutical and chemical industries for quality control. There are roughly 60 varieties of chemical substances listed, for which the angle of rotation should be measured with a polarimeter. These include ascorbic acid, testosterone, and cocaine.
- There are many optically active substances used in food additives, essences and perfumes; for them too, the polarimetric analysis is widely applied.
- Polarimeters are widely used in the analysis of sugar, which is a typical one of optical active substances. Polarimetry is the standard way of sugar measurement using the international unit of the international standard sugar scale("Z").
- Educational uses abound with universities and high schools making use of the devices in physics and applied science courses for an understanding of subjects such as polarized light, optical rotation, optical active substances, and optical activity.

SPECIFICATIONS

Measurement range	Angle of rotation: +180° to -179.95° International standard sugar scale: +130°Z to -130°Z
Minimum indication unit	0.05°(0.1°Z)
Measurement temperature range	5 to 40°C
Light source	LED with interference filter(589nm)
Accessories	Observation tubes : 1 each of 100mm tube and 200mm tube
Power source	AC100 to 240V,50/60Hz(power consumption:20VA)
Operation switches	△ R ⊕ = Right rotation switch : Rotates the analyzer slowly to the right ▼ L ⊖ = Left rotation switch : Rotates the analyzer slowly to the left ⇓ temp = Shift/Temp switch : Pressing this switch simultaneously with either ⊕ switch or the ⊖ switch will provide a faster rotation(in the shift mode). *When this switch is pressed for 2 seconds or more, the temperature of the sample chamber is indicated on the display panel(until the switch is released from pressing).
Dimensions and weight	43×22×30cm, 11.5kg

* The observation tube(length:100mm, liquid capacity:1 to 1.5ml) for small volume of sample is available as an option.

*Specifications and design of outer appearance are subject to change without notice.



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